PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 62138WO (499	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.				
International application No. PCT/US04/31532	International filing date (day/ma 24 September 2004 (24.09.2004)	(Earliest) Priority Date (day/month/year) 24 September 2003 (24.09.2003)				
Applicant BIOXELL, INC.						
This international search report has been according to Article 18. A copy is being		Searching Authority and is transmitted to the applicant I Bureau.				
This international search report consists It is also accompanied	of a total of sheets. I by a copy of each prior art do	cument cited in this report.				
Basis of the Report a. With regard to the language, the language in which it was filed, u		out on the basis of the international application in the his item.				
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II)						
3. Unity of invention is lacking. 4. With regard to the title, the text is approved as subm	ng (See Box No. III)	lows:				
5. With regard to the abstract,						
the text is approved as subr	mitted by the applicant.					
1 —		this Authority as it appears in Box No. IV. The applicant rnational search report, submit comments to this Authority.				
as suggested by the	Authority, because the applicant	failed to suggest a figure.				
	Authority, because this figure be published with the abstract.	etter characterizes the invention.				
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Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PĆT/US04/31532

Box No. II	Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1.	Claims Nos.: 1,5,6 and 9-22 because they relate to subject matter not required to be searched by this Authority, namely: Please See Continuation Sheet				
2.	Claims Nos.: 3 and 4 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet				
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This Internat	ional Searching Authority found multiple inventions in this international application, as follows:				
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. Remark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/31532

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : A61K 31/59; C07C 401/00 US CL : 514/167; 552/653						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/167; 552/653						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where app			Relevant to claim No.		
Х	US 6,566,353 B2 (BISHOP et al) 20 May 2003 (20.0) especially lines 52-67 in col. 2, lines 1-65 in col. 3, e	5.2003), se xamples, a	e the entire document, nd claims.	2, 7, 8		
				-		
Furthe	r documents are listed in the continuation of Box C.		See patent family annex.			
"A" documen	Special categories of cited documents: It defining the general state of the art which is not considered to be ular relevance	"T"	later document published after the inter date and not in conflict with the applica principle or theory underlying the inve	ation but cited to understand the		
"E" earlier a	pplication or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive statement when the document is taken alone		claimed invention cannot be red to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" documen	nt referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the			
"P" document published prior to the international filing date but later than the priority date claimed		"%" document member of the same patent family Date of mailing of the international search report				
Date of the actual completion of the international search		10 FEB 2005				
	er 2004 (10.12.2004)	Authoriz	ed officer			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Sabiha Oazi				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. (703) 308-123 Earaley al Springer				

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/31532

Box II Observations where certain claims were found unsearchable 1. because they relate to subject matter not required to
be searched by this Authority, namely: Claims 1, 5, 6, and 9-22 objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 1, 5, 6, and 9-22
are indefinite for the following reason(s):
Claims 1, 5, 6, and 9-22 are objected to because the term "use of" is improper. There are no steps in the method claims.
Continuation of Box II Reason 2: Claims 3 and 4 objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 3 and 4 are indefinite for
the following reason(s):
Claims 3 and 4 are objected to because no meaningful search can be carried out. There are no steps for the method claims on how to
obtain and/or synthesize vitamin D3 compounds.
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Continuation of B. FIELDS SEARCHED Item 3: STN, HCAPLUS, HCAOLD, REGISTRY, USPATFULL, INTERNET VIA A9.com, STN STRUCTURE SEARCH, MARPAT
STIT, HOLL EGG, HOLGER, REGISTRY, GERMAN GEE, MAZEL EGG.

Form PCT/ISA/210 (extra sheet) (January 2004)